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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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Application Number	09/621,234
Filing Date	July 20, 2000
First Named Inventor	HENSHAW
Group Art Unit	1723
Examiner Name	Ana Fortuna
Attorney Docket Number	4320-241

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AK		US-RE37,549 E	Feb 19, 2002	Mahendran et al.	
AK		US-5,480,533	Jan 2, 1996	Yamamori et al.	
AK		US-5,607,593	Mar 4, 1997	Cote et al.	
AK		US-5,209,852	May 11, 1993	Sunsoka et al.	
AK		US-5,248,424	Sep 28, 1993	Cote et al.	
AK		US-5,403,479	Apr 4, 1995	Smith et al.	
AK		US-3,708,071	Jan 2, 1973	Crowley	
AK		US-4,647,377	Mar 3, 1987	Miura	
AK		US-4,756,875	Jul 12, 1988	Tajima et al.	
AK		US-4,775,471	Oct 4, 1988	Nagai et al.	
AK		US-4,075,100	Feb 21, 1978	Furuta et al.	
AK		US-4,605,500	Aug 12, 1986	Takemura et al.	
AK		US-4,707,268	Nov 17, 1987	Shah et al.	
AK		US-4,876,006	Oct 24, 1989	Ohkubo et al.	
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AK		US-5,151,191	Sep 29, 1992	Sunaoka et al.	
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AK		US-5,584,997	Dec 17, 1997	Yagihashi et al.	

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Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AK		EP 0 598 909 A1	June 1, 1994	Yamamori et al.		
		JP 62-144712	June 27, 1987	Yuichi et al.		
		English language abstract of JP 62-144712				
		JP 61-192309	Aug 26, 1986	Toshiaki		
		English language abstract of JP 61-192309				
		JP 63-143905	June 16, 1988	Kunio et al.		
		English language abstract of JP 63-143905				
		JP 06-343837	Dec 20, 1994	Giichi		
		English language abstract of JP 06-343837				
		JP 04-247295	Sep 3, 1992	Osamu et al.		
AK		English language abstract of JP 04-247295				

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HENSHAW

Group Art Unit

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Examiner Name

Ana Fortuna

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		Number - Kind Code ² (if known)			
AK		US-6,325,928	Dec 4, 2001	Pedersen et al.	
		US-6,319,411	Nov 20, 2001	Cote	
		US-6,214,231	Apr 10, 2001	Cote et al.	
		US-6,193,890	Feb 27, 2001	Pedersen et al.	
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		US-5,944,997	Aug 31, 1999	Pedersen et al.	
		US-5,932,099	Aug 3, 1999	Cote et al.	
AK		US-5,783,083	Jul 21, 1998	Henshaw et al.	
		US-5,643,455	Jul 1, 1997	Kopp et al.	
		US-6,045,698	Apr 4, 2000	Cote et al.	
		US-5,647,988	Jul 15, 1997	Kawanishi et al.	
		US-5,451,317	Sep 19, 1995	Ishida et al.	
		US-5,366,625	Nov 22, 1994	Pedersen et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AF		WO 98/28066	Jul 2, 1998	Memtec America Corp.		
↓		EP 0734758	Oct 2, 1996	Mitsuipetro chemical Industries Ltd		
		WO 96/07470	Mar 14, 1996	Memtec Limited		
		WO 93/23152	Nov 25, 1993	Minntech Corp.		
		JP 09-141063	Jun 3, 1997	Mitsubishi Rayon Co.		
		English language abstract of JP 09-141063				
		JP 08-010585	Jan 16, 1996	Ishigaki Mech Ind Co		
		English language abstract of JP 08-010585				
↓		JP 07-275665	Oct 24, 1995	Mitsubisi Rayon Co.		
		English language abstract of JP 07-275665				
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Attorney Docket Number	4320-241

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³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Attorney Docket Number		4320-241				
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
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		English language abstract of JP 04-180821				
		JP 04-197487	July 17, 1992	Noboru et al.		
		English language abstract of JP 04-197487				
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		English language abstract of JP 02-293093				
		JP 07-136470	Nov 12, 1993	Kenji et al.		✓
		English language abstract of JP 07-136470				
		JP 08-215548	Aug 27, 1996	Kenji et al.		✓
		English language abstract of JP 08-215548				
AF		JP 61-107905	May 26, 1986	Makoto		
		English language abstract of JP 61-107905				
		JP 62-004408	Jan 10, 1987	Tomohiko		
		English language abstract of JP 62-004408				
AF		JP S63-38884	July 5, 1986	Kikuchi		✓
		JP 07-024272	Jan 27, 1995	Masumi et al.		
		English language abstract of JP 07-024272				
		JP 03-131324	June 4, 1991	Satoshi et al.		
		English language abstract of JP 03-131324				
		JP 62-201610	Sep 9, 1987	Yukio		
		English language abstract of JP 62-201610				
		JP 07-185268	July 25, 1995	Kashi et al.		
		English language abstract of JP 07-185268				
		JP 05-285349	Nov 2, 1993	Tetsuro et al.		
		English language abstract of JP 05-285349				
		JP 62-250908	Oct 31, 1987	Yokoyama		
		English language abstract of JP 62-250908				
		SU 1692626	Nov 23, 1991	Gimranov et al.		✓
AF		English language abstract of SU 1692626				

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Sheet 5 of 5

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First Named Inventor	HENSHAW
Group Art Unit	1723
Examiner Name	Ana Fortuna
Attorney Docket Number	4320-241

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AK		"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. YAMAMOTO; M. HIASA; T. MAHMOOD AND T. MATSUO; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).	
AK		"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. CHIEMCHAISRI, Y.K. WONG, T. URASE AND K. YAMAMOTO, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992	
AK		"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)	
AK		"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)	
AF		"Organic wastewater treatment by activated sludge process using integrated type membrane separation", by FUTAMURA et al. Proceedings IDA and WRPC World Conference on Desalination and Water Treatment, November 1993, Vol. 1, pp 223-230	
AK		"Integrated membrane-filtration activated-sludge wastewater treatment system", by ONISHI and FUTAMURA Proceedings 1994 MIE International Forum and Symposium on Global Environment and Friendly energy Technology, pp 365-368	
AK		"Integrated membrane filtration activated sludge wastewater treatment system", International Symposium on Fibre Science and Technology (ISF'94), Yokohama, October, 1994	
		ZeeWeed 145 Product Data Sheet	

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